

VIGON® A 250

PCB cleaning medium with a mild formulation especially for sensitive metal alloys



VIGON® A 250 is a water-based MPC® cleaning agent designed to remove flux residues and solder pastes from electronic assemblies. Due to its mild formulation, VIGON® A 250 shows excellent material compatibility with sensitive metal alloys especially for longer exposure times.

VIGON® A 250 is developed for usage in spray equipment (e.g. "dish washer" systems) as well as dip tank equipment.

Areas of application: PCB's, Hybrids		Additional product information:
Low solid flux residues*	++	Technical Information 2: Overview of all fluxes and solder pastes tested Technical Information 3: Material compatibility overview Application Recommendation: Specific process parameters for your cleaning trial MPC® Technology Information Sheet: Additional information on MPC® Technology
Rosin based flux residues*	++	
Water soluble flux residues*	++	
Solder pastes (unsoldered)	+	
SMT-adhesive or conductive adhesive	-	

++ highly recommended, best results + recommended 0 possible - not recommended
 * Valid for all standard-, lead-free and eutectic solder paste

Technical Centers - ① America, ② Europe, ③ Malaysia, ④ North-China, ⑤ South-China Cleaning Process Solutions under Production Floor Conditions



Advantages compared to other cleaners:





- Due to its mild formulation, VIGON® A 250 shows excellent material compatibility with sensitive metal alloys especially during longer exposure times.
- Surfactant-free formulation prevents the formation of white residues on cleaned parts and cleaning equipment and eliminates time-consuming surfactant monitoring.
- Due to its excellent filterability VIGON® A 250 features an extended bath life and reduced cleaning agent costs.
- VIGON® A 250 has no flash point and does not require an explosion-proof environment.
- Does not foam in spray applications and has a low odor.

Please refer to the material compatibility list (Technical Information 3) before cleaning plastics.

Process Steps	1. Cleaning	2. Rinsing	3. Drying
Spray-in-air	VIGON® A 250	DI-water	Hot air or circulation air
Batch equipment (ultrasonic)	VIGON® A 250	DI-water	Hot air or circulation air

Technical Data		
Please note that the information below represents VIGON® A 250 at a 20 % concentration.		
Density	(g/ccm) at 20°C/68°C	1.00
Surface tension	(mN/m) at 25°C/77°F	29.5
Boiling range	°C/°F	100-212 / 212-414
Flash point	°C/°F	None up to boiling
pH-value	10g/l H ₂ O	10.0
Vapor pressure	(mbar) at 20°C/68°F	approx. 20
Solubility in water		Soluble
Cleaning temperature	°C/°F	40 – 60 / 104 – 140
Application concentration ¹	%	15 – 30
HMIS Rating	Health, Flammability, Reactivity	1 – 0 – 0

¹ VIGON® A 250 is recommended to be diluted with DI-water only.

PRODUCT FEATURES	
	Extensively tested and suitable for cleaning of lead-free solder pastes
	MPC® Technology ensures an extremely long bath life when used in a closed loop system
	100% compliance with EU guidelines (RoHS 1 & 2, WEEE)
	Product is free of any critical substances according to SIN & SVHC lists

Filter recommendation

- To take full advantage of the MPC® technology and further expand the bath life of VIGON® A 250, filtration is recommended.
- For details, please request our “Filter Recommendation” sheet.

Environmental, health and safety regulations:

- VIGON® A 250 is water-based and biodegradable.
- The cleaning agent is formulated free of any halogenated compounds and therefore, is particularly environmentally friendly.
- No special precaution when handling of VIGON® A 250 is required.

Availability/Storage

- VIGON® A 250 is available as a concentrate solution in 1l bottles, 5l or 25l containers and 200l drums.
- The product is a non-hazardous material.
- Store VIGON® A 250 in the original container at a temperature between 5 - 30°C / 41 - 86°F.
- The product has a minimum shelf life of 5 years in factory sealed containers.

Cleaning standards:

Electronic assemblies cleaned in a ZESTRON specified process with VIGON® A 250 meet the following industry standards:

- IPC-A-610 Visual cleanliness
- J-STD 001 Ionic and resin cleanliness
- IPC-TM 650 and DIN 32513 surface resistance
- J-STD 003 Solderability